UNITED STATES MARINE CORPS
Logisitics Operations Schools
Marine Corps Combat Service Service Schools
PSC BOX 20041
Camp LeJeune, North Carolina 28542-0041

1308

STUDENT OUTLINE

AUTOMATED IDENTIFICATION TECHNOLOGY (AIT)

LEARNING OBJECTIVES:

a. **Terminal Learning Objective**: Given a logistics/embarkation situation, a personal computer (PC), and the required materials, perform MDSS II functions, using and per the MDSS II Pocket Guide. (0431.01.05.1)

b. **Enabling Learning Objectives**: Given a personal computer (PC) and the required materials, during an examination or practical exercise and per MDSS II Pocket Guide:

1. Set-up the AIT related hardware and tables.
2. Print out Training Labels from newly created plan.
3. Scan equipment to build a UDL.
4. Upload scanned data from the PDCD to a floppy disk.
5. Import scanned data from the scan floppy to the host database.
6. Process records that were rejected during the original import process.
7. Create equipment associations using the PDCD.
8. Use the TRACE tables to track the location of records in the ROSTER and UDL tables.
9. Writing/Reading Data to and from RF Tags.
10. MITLA Hardware Required.
11. Setting up MITLA Devices.
12. Updating the Database from RF Tags.
13. Processing Rejections.

STEP 1. LOCATION TABLE.

The Location Table lists the AIT location codes and must be completed prior to starting LOGMARS.

STEP 2. To Build a location table select <USER>, <PLAN DATA>, <LOCATION>

PRACTICAL EXERCISE 1-1:

STEP 1. Select <INSERT> to create new record.

STEP 2. Enter the following AIT locations into the Location table:

AIT Location Code AIT Description POOL MOTOR POOL PIER MOREHEAD CITY UPPERVEH UPPER VEHICLE CHECKPT1 CHECK POINT #1

STEP 3. Close window to save.

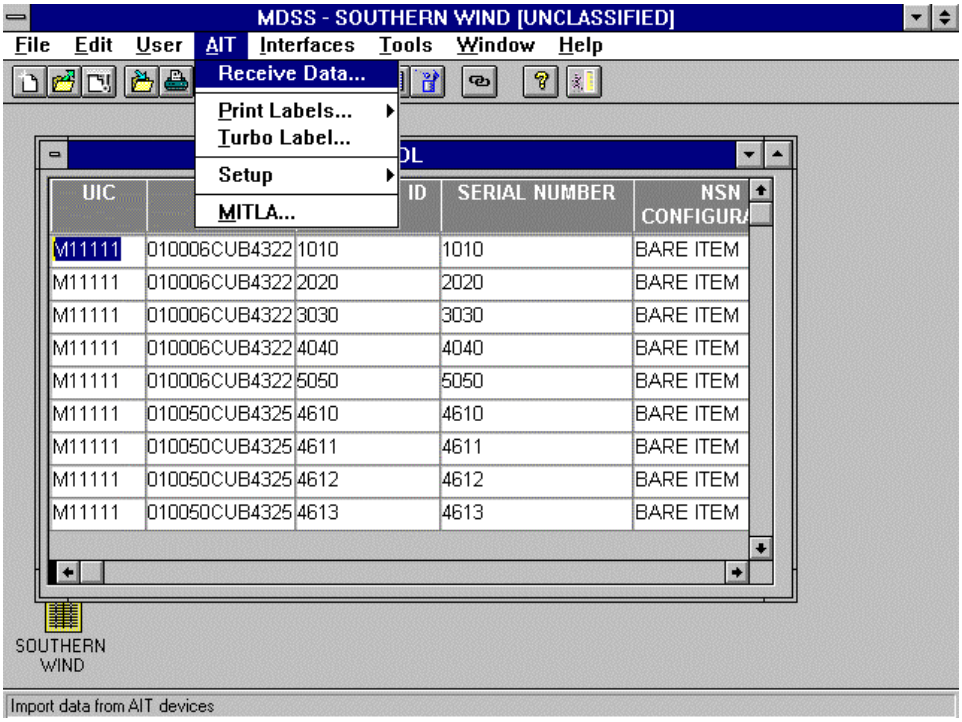

Figure 1

a. The Receive Data Module enables you to upload scanned data to a floppy diskette or hard drive via cable or wireless modem.

b. The Print Label Module enables you to generate LOGMARS labels from the system UDL.

c. The Turbo Label Module is designed to enable on-the-fly creation of equipment labels including single line TCN labels.

d. The Setup Module allows you to prepare all hardware to be used with the AIT Module. This includes the PDCDs (LOGMARS), wireless modems and label printers.

e. The MITLA Module allows you to update the UDL table directly with equipment record information using radio frequency technology.

1. Hardware Requirements. The following list provides the required and recommended components for operating AIT technology:

a. LOGMARS requires:

(1) JANUS 2010 Intrinsically Safe, Industrially Hardened PDCD or Intermec 94XX series PDCD.
(2) Intermec 1545 Bar Code Scanner.
(3) Interface Cradle/Charger with PDCD upload/download cable.
(4) Intermec 4100 Bar Code Label Printer.
(5) Esteem wireless modem model 85/95.

b. MITLA requires:

(1) SAVI Fixed Interrogators.
(2) SAVI RF Ty Tags.

LOGMARS OPERATIONS

1. JANUS 2010 Setup. The JANUS 2010 PDCD requires a **one** time setup in order to make it perform properly with the LOG AIS systems. For 1MB PDCDs or scanners use the JANUS.img file. For the 4MB PDCDs or scanners use the JANUS4MB.img file.

1. Select the Setup command from the AIT menu on the computer.

2. Select the Load Image command from the setup menu. The WinLoader v1.5 window displays.

3. Click on the Browse button to the right of the User ©

4. If you are using a 1MB PDCD, double click on the Janus.img listed. If you are using a 4MB PDCD, double click on the Janus4mb.img listed. The WinLoader v1.5 window redisplays. 5. If you need to adjust your settings, click on the Settings button in the Program Controls window. The Winloader Settings window displays.

6. Ensure the settings shown reflect the correct COM port. 7. If any changes are made you must check the save all or the apply now option. 8. Click on the Do it button. 9. On your Janus PDCD, access the Bootloader. 10. Turn the PDCD off. 11. Press F3+2+Left Arrow (at the same time)

.

12. Release and press 2 once again

.

13. Turn the PDCD on. The Bootloader displays

.

14. Select Load then press enter

.

15. On the computer (LOGAIS), from the WinLoader v1.5 window, . click on the Start Load button

.

16. Choose the Reboot on the PDCD after files are loaded.

2. LOGMARS Setup. Selecting LOGMARS from the setup option presents you with the PDCD setup window. This window is divided into four drop down selection options: Use the following steps to configure the PDCD:

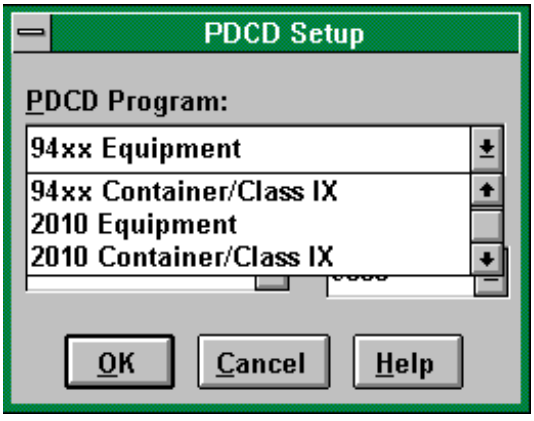

Figure 2

Practical Exercise 1-2 **1.** Select <AIT>, <SETUP>, <LOGMARS>. **2.** The DCD Program types include:

.- Equipment Program. The Equipment DCD Program is designed to accommodate all needed fields for new equipment records, scans key data elements required for record uniqueness and loads all data elements needed for MPF operations with the DCD.

- Container/Class IX Program. The Container/Class IX DCD Program is designed for inventory, tracking locations and updating information pertaining to Containers and Class IX items. The Container/Class IX DCD program enables you to collect data for Containers and the Vidmar Cabinets. This program recognizes the association type used for the cabinets (Inventoried) and always keeps parts associated to the parent cabinet. Even if the container changes location, the contents of the cabinets remain associated to the parent cabinet.

Select the Equipment Program option. **3.** Select the device used to transfer data. (Wireless modem or cable upload.) **4.** Select the Baud Rate (Default Baud rate for Intermec Devices is 9600). **5.** Select the COM port 1 which will be used. **6.** Select [OK]. Follow the on-screen instructions exactly.

STEP 1. Once the program download is complete select [Enter] on the keyboard and set the keyboard aside. This returns you to the Setup LOGMARS Menu. The next series of commands will be entered from the PDCD.

STEP 2. Once figure 3 appears on the PDCD, select [Enter].

LOGAIS DATA
COLLECTION SYSTEM
VERSION 4.0
PRESS <ENTER>

Figure 3

STEP 3. Correct the date as required and select [Enter].

The PDCD now prompts you for the correct date (See Figure

4). If this is the correct date select [N] and [Enter], if not select [Y] and [Enter] to enter the correct date. It prompts for the year, month, and day. After the date is changed, it again prompts to enter or change the date.

Date is: 12/01/96
Change Date
(Y/N): N

Figure 4

STEP 4. Correct the time as required and select [Enter].

The PDCD now prompts you for the correct time (See Figure 5). If this is the correct time select [N] and [Enter], if not select [Y] and [Enter] to enter the correct time. It prompts for the hour and minutes. After the time is changed, it again prompts to enter or change the time.

Time is: 00:15
Change Time
(Y/N): N

Figure 5

STEP 5. Select [Enter] and the PDCD displays the Main Menu.

a. Main Menu items:

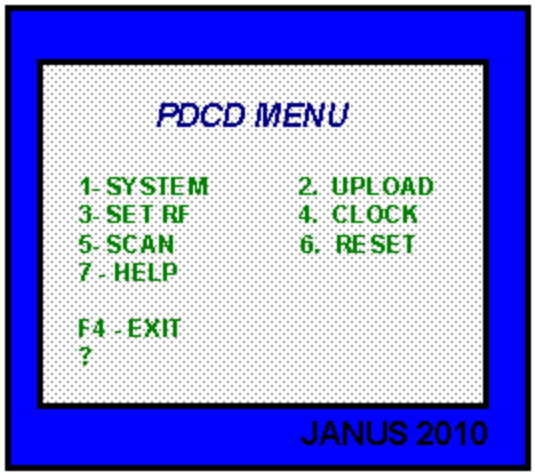

Figure 6

3. PDCD Operations. The items listed above appear on the PDCD main menu. (See Figure 6).

a. Clock. This option sets correct date and time. Accuracy of the PDCD's internal date and time is critical to the tracking process. When changing from time zone to time zone (deploying), you will have to change the time and maybe the date. Selecting this option presents the date and time that is currently in the PDCD and prompts for changes. This process is the same as in the program download.

b. Set RF. The Set RF selection allows you to configure the PDCD for use with Esteem Wireless Modems. Before setting the PDCD for wireless modem operations, it is recommended that the user configure with the Esteem wireless modem Setup. See Esteem Wireless Modem Section for more details.

c. Reset. This option resets the program in the PDCD. It is recommended that this option is performed prior to using the PDCD. This helps avoid program corruption lockups.

STEP 1. Select [6] and [Enter]. This brings up a warning screen (See Figure 7).

ALL DATA STILL IN
PDCD WILL BE LOST!
Reset Program?
(Y/N):

Figure 7

STEP 2. Select [Y] and [Enter] to reset the PDCD. After the PDCD resets, it prompts to press [Enter] and then for the date and time. Go ahead and press [Enter] until you arrive back at to the Main Menu.

d. System. This option provides a choice of data collection programs installed on the PDCD.

STEP 1. Select [1] and [Enter] (See Figure 8).

```
F4-Exit

1-Collect Inventory
2-Track Locations
3-Update Hgt/Wgt
4-Scan TCN
5-Customize
```

Figure 8

(1) Collecting Inventory. Collecting inventory with the Equipment PDCD Program enables you to compile complete record information with the PDCD. Each record requires you to enter required field information. Once all requested fields are entered, you are prompted for the next record's information. The difference between this Inventory option and the Track Locations option is that much more information is required for each record. This is done in an effort to provide the most detailed information about that individual record including dimensional data and quantities as well as its location.
STEP 2. Select [1] and [Enter]. The screen prompts "Keep Previous NSN (Y/N)" (See Figure 9).

```
Keep Previous NSN
(Y/N): N
```

Figure 9

By answering "Y" the NSN carries over from item-to-item as the default NSN. By answering "N" the PDCD prompts for the NSN on every item. While here at EWTG, ALWAYS answer "N".

STEP 3. You must enter one of the following Package ID only, Serial # only or use both. Select [1] and [Enter] (See Figure 10).

```
1-PKG ID Only
2-SER # Only
3-Use Both
: 1
```

Figure 10

STEP 4. Next option is choose English or Metric Calculations. Select [1] and [Enter] (See Figure 11). The PDCD returns to the Main Menu.

```
1-English
2-metric
: 1
```

Figure 11

e. SCAN. This option collects data. The data prompted for during the SCAN Option varies depending on the option selected from the System Menu (e.g., Collect Inventory, Track Locations, Update Hgt/Wgt, etc.). Regardless of the option selected, you will always be prompted for the "Location", "MSE", and "Device #.

STEP 1. Select [5] and [Enter] (See Figure 12).

```
Equipment 4.0
1-System  2-Upload
3-Set RF  4-Clock
5-Scan    6-Reset  5
```

Figure 12

STEP 2. The screen now prompts for a location (See Figure 13). This is the LOGMARS Location Code and must correspond to a location in the Location table.

```
Enter
Location: POOL
```

Figure 13

STEP 3. Type "POOL" (LOGMARS location code) and select [Enter].

STEP 4. Enter "CSSE" and select [Enter] for the MSE code (See Figure 15). The MSE code identifies the Major Subordinate Element of the MAGTF. The MSE code must be listed in the MSE Table to be valid.

Enter
MSE: CSSE

Figure 15

STEP 6. The next screen prompts for a device number. Enter the Device # "01" and select [Enter] (See Figure 17). The device number is a number that allows MDSS II to distinguish between different PDCD's involved in the scanning operation. There can be up to 99 PDCD's.

Enter Device #: 01

Figure 17

STEP 8. Enter the UIC "MCSSS" and select [Enter] (See Figure18).
The PDCD also displays how many records are in the PDCD and the current MSE.

F2-Menu displays the options available while in the Scan Option.

F3-Delete, deletes the last record entered. If you want to delete the last 2 records select F3-Delete twice, etc. You have a chance to make corrections at a later time before uploading the data to the computer. Normally the F3-Delete Option is only used to delete the last few records.
F4-Exit returns the Main Menu.

Rec # 0 CSSE
F2-Menu F3-Delete
F4-Exit
Enter UIC: MCSSS

Figure 18

STEP 9. Enter the NSN “2330005422831” (See Figure 19).

F2-Restart allows you to return (restart) to the UIC prompt.

F2-Restart
Enter
NSN: 2330005422831

Figure 19

If you enter too many or not enough characters for the NSN, the PDCD prompts "Error -- Too Long or Too Short, Must Be 13 Chars Long, Please Try Again.

STEP 10. Enter the PKG ID 525336 and select [Enter] (See Figure 20). The next screen will ask for a serial # and the same value will be put in the same manner.

Either enter a PKG ID/Serial # or select [F1] and the system generates one.

F1-GENID
F2-Restart
Enter PKG ID
> 525336

Figure 20

STEP 11. Enter the LTI code "A" and select [Enter] (See Figure 21).

The LTI code is a one character code used to tell the condition of a item.

LTI Letter Condition Code

A Serviceable - Issueable Without Qualification
B Serviceable - Issueable With Qualification
C Serviceable - Priority Issue
D Serviceable - Test/Modification
E Unserviceable - Limited Restoration
F Unserviceable - Reparable (Use Codes W, Y, Z & 2 if applicable)
G Unserviceable - Incomplete
H Unserviceable - Condemned
W Reparable Repair Cost 11-25% Standard Unit Price
Y Reparable Repair Cost 26-40% Standard Unit Price

W Reparable Repair Cost 41-65% Standard Unit Price
2 Reparable Cost of Repairs above 65% of Unit Price

Detailed explanation of classification and condition codes are contained in MCO P4400.71 series.

F2-Restart
Enter
LTI: A

Figure 21

STEP 12. Enter Height "80" and select [Enter] (See Figure 22).

If you do not know the exact height, enter an approximate height and change it later.

F2-Restart
Enter
HGT: 80

Figure 22

STEP 13. Enter the Weight "5200" and select [Enter] (See Figure 23).

If you do not know the exact weight, enter an approximate weight and change it later.

F2-Restart
Enter
WGT: 5200

Figure 23

STEP 14. Enter the Quantity "1" and select [Enter] (See Figure 24).

F2-Restart
Enter
QTY: 1

Figure 24

STEP 15. After selecting [Enter], the PDCD returns to the UIC prompt for the next record (See Figure 25).

```
Rec #  2  CSSE
F2-Menu  F3-Delete
F4-Exit
Enter UIC:
```

Figure 25

STEP 16. Select F4-Exit.

f. Tracking Locations. The Tracking Locations option in the Equipment PDCD Program enables you to enter record information for new locations. The location change is updated in the system database when the scanned records are downloaded. This function enables you to track the movement of equipment from location to location.

STEP 1. Connect the scanner to the PDCD.

There is a white dot on both connectors. At this time, go ahead and line up the white dots and insert the scanner plug into the PDCD.

STEP 2. Select [1] and [Enter] (See Figure 26).

```
   Equipment 4.0
1-System  2-Upload
3-Set RF  4-Clock
5-Scan    6-Reset 1
```

Figure 26

STEP 3. Select [2] and [Enter] (See Figure 27).

```
  F3-More  F4-Exit
1-Collect Inventory
2-Track Locations
3-Update Hgt/Wgt 2
```

Figure 27

STEP 4. Select "N" and [Enter] (See Figure 28).

Keep Previous NSN
(Y/N): N

Figure 28

Like with the Collect Inventory Option, you have the option to keep the previous NSN. We will not keep the previous NSN.

STEP 5. You must enter one of the following Package ID only, Serial # only or use both. Select [1] and [Enter] (See Figure 29).

1-PKG ID Only
2-SER # Only
3-Use Both
: 1

Figure 29

Selecting PKG ID Only, brings you back to the Main Menu.

STEP 6. Select [5] and [Enter] (See Figure 30).

Equipment 4.0
1-System 2-Upload
3-Set RF 4-Clock
5-Scan 6-Reset 5

Figure 30

You are prompted to change the location.

STEP 8. Enter the location "CHECKPT1" and select [Enter] (See Figure 31).

F-2 Restart
Enter Location
[CHECKPT1]

Figure 31

The screen displays the MSE entered earlier and prompts you to change the MSE.

STEP 10. The default is no, so if you entered the MSE correctly select [Enter] (See Figure 32).

F-2 Restart
Enter MSE
[CSSE]

Figure 33

The screen displays the Device # and prompts you to change the Device #.

STEP 11. The default is no, so if you entered the DEVICE # correctly select [ENTER] (See Figure 34).

F-2 Restart
Enter Device #
[1]

Figure 34

After selecting [Enter], the data collection screen returns
prompting for the UIC.

You are now ready to scan LOGMARS labels at CHECKPT1.

When tracking locations, the PDCD only prompts for the UIC,
NSN, and the PKG ID.

PRACTICAL EXERCISE 1-2:

Scan the labels located in Student Handout B127-2.

Watch the PDCD screen and scan what it prompts for (i.e. when the PDCD prompts for the UIC, scan the UIC barcode on the LOGMARS label by squeezing the orange trigger until it beeps, etc..).

After completing Practical Exercise 1-2, the PDCD should have eleven records recorded (See Figure 35).

Rec # 11 CSSE
F2-Menu
F3-Delete F4-Exit
Enter UIC:

Figure 35

STEP 1. Select F2-Menu (See Figure 36).

Rec # 11 CSSE
F2-Menu F3-Delete
F4-Exit
Enter UIC: F2

Figure 36

The F2-Menu options are: Associate, Unassociate, Scroll, Newloc and Exit.

STEP 2. Select F3-More (See Figure 37).

Menu Options
1-Associate
2-UN-Associate
3-Scroll
4-Newloc
F4-Exit

Figure 37

g. Scroll / Delete Feature. The Scroll feature enables you to scroll backwards or forwards through previously scanned records and delete records. The display shows records currently in the system by displaying its PKID and NSN. You have the choice to delete an unwanted record. In the case of deletion during the scrolling phase, the PDCD erases the associated record entries and places the word "deleted" into the Location and NSN fields. The Location field is used to keep track of the number of deleted records during the Receive AIT Data phase. The NSN field is used to show that the record has been deleted should you scroll onto that particular record again in the PDCD.

h. Newloc Option. This option assigns new locations without leaving the Scan Option.

STEP 1. Select 4-Newloc (See Figure 37).

STEP 2. The next screen prompts you for a new location, enter

new location "PIER" and [ENTER] (See Figure 38).

```
F-2 Restart
Enter Location:  [PIER]
```

Figure 38

After selecting enter you return to the Menu Options Menu.

i. Associating Records. This option allows you to associate records. Associating allows you to designate a Parent record and associate Child records to it. You may designate any record a parent and any records as children. You may also assign a link type to the records every time you select to associate.

STEP 2. Select 1-Associate (See Figure 37).

The PDCD prompts P-UIC (Parent UIC). In this case it would be the truck (564852).

STEP 3. Scan the UIC, NSN, and PKG ID for 564852 (label #5) in your student handout (See Figure 39).

```
Rec # 11 CSS
Associate
F4-Quit
Enter P-UIC: M11111
```

Figure 39

Once the Parent is scanned, the PDCD prompts C-UIC (Child UIC). in this case it would be box (2403). (See figure 40)

Screen options are:

F3-Delete (Delete child)
F4-End (End assocation)

STEP 4. Scan the UIC, NSN, and PKG ID for 2403 (label #6).

```
Rec # 12 CSS
F3-Delete  F4-End
PKGID: 564852
Enter C-UIC:  M11111
```

Figure 40

Once the child is scanned, Figure 41 appears.

1-Hitched
2-Load Onto
3-Mobile Loaded
4-Palletized
5-Put Into
6-Stacked
7-Set F-2 Restart
Figure 41

STEP 5. Ensure the Mobile Loaded option is on the screen and select "3". (See Figure 41).

The screen now prompts for additional children to associate with this parent. In this case there are no more children.

STEP 6. Select F4-End to end assocation (See Figure 42).

Rec # 13 CSSE
F3-Delete F4-End
PKGID: 2403
Enter C-UIC: F4

Figure 42

PRACTICAL EXERCISE 1-3:

STEP 1. Associate the following items from student handout E415-2. Ensure you select [F2-Menu], then [F1-Associate] to start the assocation and [F4-End] to end one assocation before starting the next one.

PARENT LABEL #	CHILD LABEL #	LINK TYPE
1	7	MOBILE LOADED
2	8	MOBILE LOADED
3	9	MOBILE LOADED
4	10	MOBILE LOADED

STEP 2. Select [F4-quit]. After completing Practical Exercise 1-3, the PDCD should have twenty one records recorded (See Figure 43).

```
Rec # 21 CSSE
F2-Menu  F3-Delete
F4-Exit
Enter UIC:  F4
```

Figure 43

i. **Unassociating Records**. If you need to Unassociate records in the PDCD, you can perform this function while in Scan Mode. Selecting this option asks you to identify the Parent record. (e.g., Parent UIC, NSN, and PKG ID). You are then prompted to identify the Child records to unassociate (same info as Parent).

STEP 1. Select [F4-Exit] to return to the Main Menu and select "1" and [ENTER] (See Figure 44).

```
Equipment 4.0
1-System  2-Upload
3-Set RF  4-Clock
5-Scan    6-Reset    1
```

Figure 44

k. Updating Height and Weight. The Updating height (Hgt) and weight (Wgt) option in the Equipment PDCD Program enables you to update the equipment's dimensional data.

l. Scanning TCNs. Scanning Transportation Control Numbers (TCNs) with the Equipment PDCD Program enables you to scan for the TCN field of LOGMARS labels. The most recent scanned TCN values are updated to the system database which updates the TCN field in the Unit Deployment List (UDL) table.

m. Customizing the PDCD Program. Customizing the PDCD Program enables you to setup the PDCD to prompt for particular fields. You must enter the key fields as a default and select other fields which are necessary for the labels.

n. Upload Option. The Cable option enables you to upload data from a PDCD to a Host computer via a serial cable. Use the steps described in the Receive Data Procedures to configure the PDCD to upload data via a serial cable.

(1) Wireless ON. Selecting the <WIRELESS ON> option will initiate wireless transfer of data via wireless modem as soon

as scanning begins. During the scanning process you will be able to tell you are in wireless mode by the presence of a time clock in the bottom left hand corner of the PDCD display. [Note: Actual data transfer will not occur until the time clock reaches zero. The parameters for setting the clock default is done under the **Set RF** menu].

(2) Wireless OFF. Selecting <WIRELESS OFF> allows you to switch to one of the other scanning modes.

(3) Cable Upload. Selecting <CABLE UPLOAD> allows you to transfer data from the PDCD to your Host computer via cable.

(4) Wireless Upload. Selecting <WIRELESS UPLOAD> allows you to transmit data to the Host computer via wireless modem immediately.

Receiving Data

a. Receive Data Command. The Receive Data command enables you to upload the PDCD scan data to a floppy diskette or hard drive. Scan data will be presented to you on the screen in a temporary table called Newcargo so that you may edit it prior to saving it to disk. You will have the option of saving this data to the table view or as a file to the desired floppy or hard disk location. Once LOGMARS data is received and saved to the Newcargo table or placed on disk, you will use the Interfaces menu option to bring the data into the system via the AIT import.

You are kept up to date on the status of the data received by the Received Data Screen. The Received LOGMARS Data Screen shows how many records have been received at each of the locations used while scanning. Any locations not in the Location table at the time of the receive operations will be labeled as unknown in the Receive window.

PRACTICAL EXERCISE 1-5

CABLE UPLOAD: THIS OPTION ALLOWS YOU TO TRANSFER DATA FROM THE PDCD TO YOUR HOST COMPUTER VIA CABLE.

***ON YOUR COMPUTER**

1. SELECT <AIT>, <RECEIVE DATA>.
2. SELECT <AIT.TXT> FROM "INTERFACE TYPE BOX".

3. SELECT <DRIVE>.
4. SELECT <OK>.
5. SELECT <CABLE TRANSFER> FROM "RECEIVE TRANSFER METHOD WINDOW".
6. THE "AIT RECEIVE DATA WINDOW" IS DISPLAYED, SELECT <OK>.

***ON YOUR PDCD**

7. FROM **LOGAIS MAIN MENU**, SELECT <UPLOAD>.
8. SELECT <CABLE OPTION>, INSURE UPLOAD/DOWNLOAD CABLE IS ATTACHED.
9. SELECT <ENTER> WHEN READY. WHEN TRANSFER IS COMPLETE TURN PDCD OFF.

*** ON YOUR COMPUTER**

10. "RECEIVE DATA" IS COMPLETE, SELECT <OK>.
11. "FINISHED RECEIVING WINDOW" IS DISPLAYED, SELECT <OK>.
12. **IMPORT DATA** INTO NEWCARGO TABLE FOR EDITING, SELECT <INTERFACES>, <IMPORT>.
13. SELECT <AIT.TXT> FROM "INTERFACE TYPE BOX".
14. SELECT <DRIVE>.
15. SELECT <OK>.
16. DOUBLE CLICK ON CORRECT FILE NAME (DATE TIME GROUP).
17. SELECT <OK>.
18. THE IMPORT WINDOW IS DISPLAYED, "# ROWS IMPORTED", SELECT <OK>.
19. THE NEWCARGO TABLE IS DISPLAYED. YOU MAY EDIT RECORDS IN THIS TABLE PRIOR TO **POSTING TO THE UDL**.
20. TO POST THE DATA TO THE CURRENT PLANS UDL, SELECT <TOOLS>, <POST TO UDL>. THE NEWCARGO TABLE "MUST BE OPEN", TO HAVE THE POST TO UDL OPTION.
21. INTERFACE BROKER WINDOW IS DISPLAYED, SELECT "ADD NEW NSN'S TO TECHDATA, SELECT <OK>.
22. INTERFACE BROKER WINDOW DISPLAYED, # RECORDS PROCESSED/REJECTED, SELECT <OK>.
23. **REJECTED RECORDS**: SCROLL RIGHT TO REJECT REASON FIELD.
24. CORRECT REJECT, <SAVE> RECORD.
25. SELECT <TOOLS>, <POST TO UDL>.

PRINTING LABELS

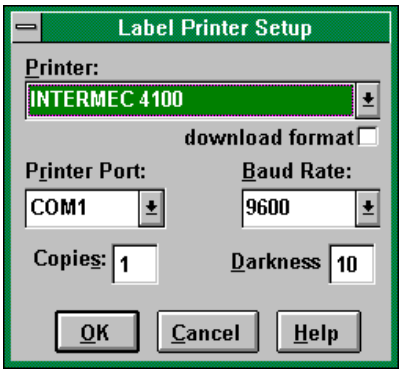

Figure 45

1. **Label Printer Command**. The Label Printer command enables you to choose a default label printer, a default number of copies, a default darkness level and a default printer port. Intermec label printers require that the operation format be downloaded prior to printing labels from LOG AIS systems. This procedure only needs to be downloaded once so that the system will know if it is sending labels to an 8646 or 4100 model printer. The 8646 and 4100 models are supported by the system and are the only printers requiring a format download. Use the following steps to configure the label printer:

a. Select <AIT>, <SETUP>, <LABEL PRINTER>.
b. Select the appropriate printer in the Printer box:

(1) Epson/Compatible
(2) HP Laserjet
(3) INTERMEC 4100
(4) INTERMEC 8646

c. Select a COM or parallel port in the Printer Port box.
d. Select the number of copies to be printed in the Copies box.
e. Select the Baud Rate in the Baud Rate box (standard value is 9600).
f. Select the darkness level to be printed on the labels in the Darkness box.
g. Click on the download format box to configure the printer.
h. Select the OK button.

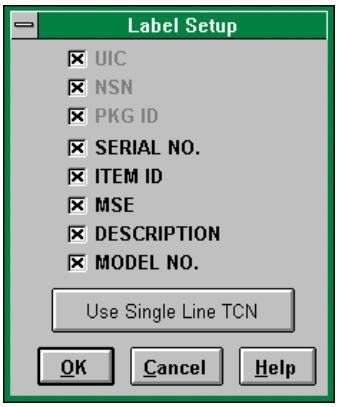

Figure 46

2. Label Command. Use the Setup Label option to identify which fields you want displayed on the standard equipment label. The standard equipment label is generated from the UDL table and the default format in the system is to print all fields on the LOGMARS label. Configuring the Label Setup Window procedures:

a. Select <AIT>, <SETUP>, <LABEL>. The Label Setup window is displayed.
b. All fields are selected by default.
c. De-select fields which you do not need printed by clicking on the field name. Fields which are selected to print on the labels are displayed with an x in the box.
d. Select the OK button to save your label format settings.

3. Turbo Label Command. Turbo Label is designed to enable on-the-fly creation of equipment labels. Lookups are available for the UIC, NSN, and Item ID fields. All related information will be filled in for the NSN and Item ID combination selected. The Turbo label option is available from the AIT menu option. Once data is filled in the Turbo label table, you may print the selected labels by using the Print Labels option from the AIT menu. The resulting label(s) will print with the format set under the Label command under Setup. Use the following steps to create a turbo label:

a. Select <AIT>, <TURBO LABEL>, Turbo label window appears.
b. Enter data in the UIC, NSN and PKG ID fields and any other desired label fields.
c. Select <AIT>, <PRINT LABELS> to print the labels.

4. Print Labels Command. The Print Labels command enables you to generate LOGMARS labels from the system UDL table. You

must first select the records you wish to print labels for by highlighting them. Once highlighted, selecting the Print Labels command will print the labels to the selected Label printer. Use the following steps to print labels:

a. Select the records to print as labels from the UDL table for the current Plan.
b. Select <AIT>, <PRINT LABELS>.
c. MDSS II prompts you with a choice between standard green labels or military shipping labels. Select the standard green labels.
d. The selected records are printed as LOGMARS labels.

ESTEEM WIRELESS MODEMS

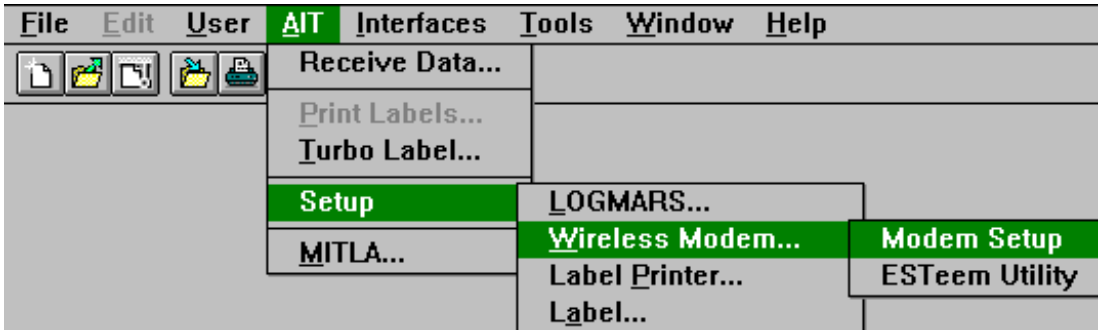

Figure 47

1. Wireless Modem Setup. You may select to use the Esteem wireless modem as the setup and transmission device during LOGMARS operations. You must connect one modem to the PDCD and another Esteem wireless modem to the host computer. The user can use the Esteem wireless utility program to configure and run diagnostics on Esteem wireless modems. Within this program you are able to configure the parameters needed for one or more modems to communicate with each other. The Esteem utility program provides help topics to assist with all modem setup and diagnostics. You are able to set certain modem parameters from the PDCD itself by using the Set RF option from the PDCD main menu. This is necessary in order to effectively communicate between the two hardware components. Also, you have the ability to set the address of a Repeater modem if needed.

2. PDCD and Modem Operations (SET RF)

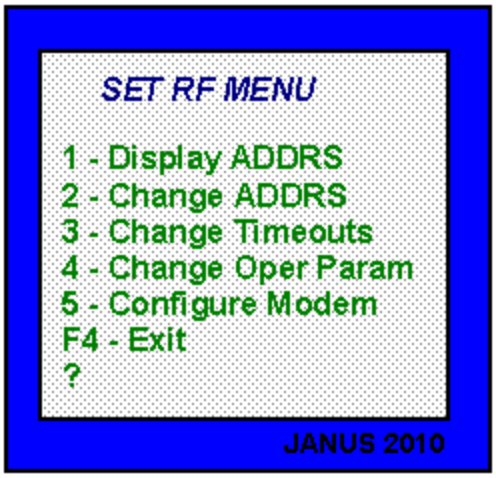

Figure 48

a. Set RF Menu.

(1) Display ADDRS. The Display Address menu option allows you to view the PDCD modem address along with the destination modem address and whether or not repeaters are being used. If using the 94XX, pressing [Enter] displays the addresses of destination #2 and destination #3. Pressing [Enter] a third time returns you to the Set RF on the main menu.

(2) Change ADDRS. The Change Address menu option allows you to set and/or edit the addresses displayed using the previous menu option. Selecting this option presents you with the PDCD modem address, giving you the option of changing that address.

(3) Change Timeouts. Selecting the Change Timeouts menu option allows you to change the amount of time the PDCD waits for input from the user before proceeding to transmit records (Change Y/N). You will need to have the "wireless on" option activated to have data transmitted automatically. Each time you press the button on the scanner gun amount of time the PDCD waits before attempting to send records is reset. The default amount of time is 3.0 minutes. Lowering this number speeds up the transmit process.

(4) Change Oper Param. The Change Operating Parameters menu option allows you to change the parameters in the Esteem wireless modem Setup program. The first option displayed after selecting this option allows you to change the number of tries the modem attempts to connect to a busy destination modem before aborting. The default is 20 tries. Decreasing this number reduces the time it takes to determine the destination modem is not operating correctly.

(5) Configure Modem. After setting the address for the PDCD modem, destination modem addresses, and all repeater modem addresses, you will need to send this information to your modem by selecting to Configure Modem (#5). It is mandatory that you configure the frequency and squelch for the wireless modems using the default wireless modem setup found under the Setup LOGMARS menu selection on your PC.

MITLA

1. MITLA Overview. MITLA (Microcircuit Technology in Logistics Applications) is a non contact interface used to write and read data from Radio Frequency (RF) devices. Selecting this option from the AIT menu will initialize the MITLA workbench where you will be able to identify RF Tags, Read and Write to tags and Post the current Plans UDL table.

The standard use for MITLA in the LOG AIS family of systems will be to write/read data to Radio Frequency Tags which will be placed on equipment. The data on the RF tags will contain information about the item it is placed on and each data element will relate to a specific field in the UDL table. Tags are then read by an interrogator unit and the data transferred to a host PC into the RF Tag table. This RF table is a temporary location for the records. The table may be edited prior to Posting records permanently to the UDL for the current Plan. Once MITLA data is resident in the RF tag table, it may be posted to the active Plans UDL table by using the Post to UDL option from the Tools menu. It is necessary to setup MITLA devices prior to using them to Write and Read to RF Tags.

2. MITLA Workbench. The following is a step by step description of the MITLA workbench functions.

Figure 49

a. Setting up the Interrogator

(1) Select <USER>, <PLAN DATA>, <LOCATION>. Ensure the Location table has valid locations.
(2) Select <USER>, <PLAN DATA>, <INTERROGATOR>.
(3) Enter the interrogator ID to identify the interrogator.
(4) Enter a valid location from the Location table.
(5) Enter the signal strengths for the interrogator (must be filled in 1 to 99). This Gain adjustment is used to more precisely define the area which an interrogator scans. This is noticeably important when multiple Interrogators are used at the same site.
(6) Select <FILE>, <SAVE>. Select <FILE>, <CLOSE VIEW>.
(7) Select <USER>, <MITLA>.
(8) Select the drop down list box next to the interrogator icon.
(9) The Interrogators defined in the interrogator table displays on the screen.
(10) Select an interrogator number. Associated location fills in automatically.
(11) Click on the [ADD] button to activate the interrogator.
(12) You may now perform any Scan, Write or Read functions.

b. Setting the RF Tag ID. The MITLA RF Tags will always have unique RF IDs. These IDs are not user defined and cannot be changed. The RF Tag ID is also printed on the exterior of the tags for visual recognition. The RF Tag ID will be used to identify the tag which will be written to or read from the interrogator unit.

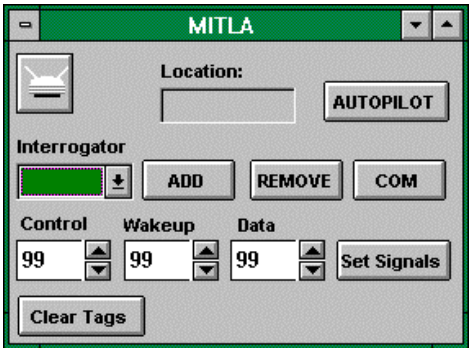

Figure 50

c. Writing to RF Tags. To place data on an RF tag that will later be read by an interrogator unit, you must first write the data to that particular tag. You must identify the

interrogator ID and the RF Tag ID which will allow for that particular interrogator to write to that particular RF Tag. Use the following steps to write to an RF tag:

(1) Set up interrogator ID and Location.
(2) Select <AIT>, <MITLA>. MITLA Workbench appears.
(3) Select an interrogator ID from the drop down list box.
(4) Click on the [ADD] button.
(5) Select <TOOLS>, <SCAN>. Available RF Tags are listed in the Tag table.
(6) Select the tag to write to from the table.
(7) Select the MITLA UDL record to place on the Tag by highlighting it.
(8) Select <TOOLS>, <WRITE TAG>. Data is written to the tag.

d. Scanning the RF Tags. Scanning RF Tags is the process of collecting the data stored in them by an interrogator. This is the equivalent to Receiving LOGMARS data onto a floppy or hard drive. The RF Tag enables the interrogator to recognize its presence. The tag IDs are listed in the RF Tag table of the host system when the Read Tags option is selected from the Tools menu. You must select an interrogator first from the available list. The interrogator provides the Tag IDs for the RF Tags in its reading range. Use the following steps to scan RF tags:

(1) Set up interrogator ID and Location.
(2) Select <AIT>, <MITLA>. MITLA Workbench appears.
(3) Select an interrogator ID from the drop down list box.
(4) Click on the [ADD] button.
(5) Select <TOOLS>, <SCAN>. Available RF Tags are listed in the Tag table.

e. Updating the Database

RF Tags read by interrogator may be updated immediately to the current Plans database by highlighting the records in the MITLA Tag window and selecting <POST TO UDL> from the <TOOLS> menu. The Scan RF Tag option acts as the equivalent of the LOGMARS Receive data command. The RF Tag information in the RF Tag table may be posted directly to the current Plans UDL table while in the MITLA workbench. The Location field in the UDL will automatically be updated with the current interrogator Location. This will effectively allow equipment to be tracked by Location code.

References:

LOGAIS 5.2 Tutorial Disk